CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

An ISO 9001:2008 Certified Company

Job No.: CTCE/BBMP/W.No.13/AP/CEMENT/2012-13

Date: 18.04.2013

TEST REPORT

CLIENT	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
AGENCY	:	**Mr. A. Pradeep,** Contractor, Bangalore.
NAME OF THE WORK	:	Providing Cement Concrete to Cross Roads at Mantapa Pradesh Area in Ward No.13, BBMP, Bangalore.
REFERENCE	:	BBMP/AEE/SSD/DZ/PR/2012-13 Dated: 15.04.2013
SAMPLE ID	:	Cement
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-1989
1	a) Initial Setting Time	IS-4031 (Part -5)	203 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	496 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	30.00 %	-

Note:

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AE Ward no-13

ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಶೆಟ್ಟಿಹಳ್ಳಿ ಉಪವಿಭಾಗ, ದಾಸರಹಳ್ಳಿ ವಲಯ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಎಸ್ ಎಂ ರಸ್ತೆ, ಮಲ್ಲೇಶ್ವರಂ, ಬೆಂಗಳೂರು

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Job No.: CTCE/BBMP/W.No.13/AP/SAND/2012-13 : 18.04.2013

TEST REPORT ON FINE AGGREGATES (SAND)
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

Agency : **Mr. A. Pradeep,** Contractor, Bangalore.

Name of Work : Providing Cement Concrete to Cross Roads at Mantapa Pradesh Area in Ward No.13, BBMP, Bangalore.

Reference : BBMP/AEE/SSD/DZ/PR/2012-13 Dated: 15.04.2013

Date of Testing : 18.04.2013

Material : Sand Total Wt. of Aggregates in gms **2000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	102	5.10	5.10	94.9	90-100
2.36	214	10.70	15.80	84.2	75-100
1.18	498	24.90	40.70	59.3	55-90
600 Micron	478	23.90	64.60	35.4	35-59
300 Micron	442	22.10	86.70	13.3	8-30
150 Micron	213	10.65	97.35	2.7	0-10

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ಶಟ್ಟಿಹಳ್ಳಿ ಉಪವಿಭಾಗ, ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಪಶ್ಚಿಮ ವಲಯ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಪಾಲಿಕೆಗಾರ ಪಾಲಿಕೆ
ಎಸ್.ಎಂ. ರಸ್ತೆ, ರಾಜಾಜಿನಗರ, ಬೆಂಗಳೂರು.

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Job No.: CTCE/BBMP/W.No.13/AP/AGG/2012-13 : 18.04.2013

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

Agency : **Mr. A. Pradeep,** Contractor, Bangalore.

Name of Work : Providing Cement Concrete to Cross Roads at Mantapa Pradesh Area in Ward No.13, BBMP, Bangalore.

Reference : BBMP/AEE/SSD/DZ/PR/2012-13 Dated: 15.04.2013

Date of Testing : 18.04.2013

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **20000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	602	3.01	3.01	96.99	95-100
20	11697	58.49	61.50	38.51	30-70
10	5462	27.31	88.81	11.20	10-35
4.75	1985	9.93	98.73	1.27	0-5

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ಎಸ್.ಎಂ. ಕೃಷ್ಣ ಮಲ್ಲೇಶ್ವರಂ ಬೆಂಗಳೂರು.

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Job No.: CTCE/BBMP/W.No.13/AP/STEEL/2012-13 20.04.2013

TEST REPORT ON REINFORCEMENT STEEL

Client	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
Agency	:	**Mr. A. Pradeep,** Contractor, Bangalore.
Name of the work	:	Providing Cement Concrete to Cross Roads at Mantapa Pradesh Area in Ward No.13, BBMP, Bangalore.
Reference	:	BBMP/AEE/SSD/DZ/PR/2012-13 Dated: 15.04.2013
Date of Test	:	20.04.2013
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm²	Tensile strength (Ultimate stress) N/mm²	Elongation percent gauge length		
1	8	0.40	510	549	12.95	O.K	O.K
2	10	0.62	513	553	13.40	O.K	O.K

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Job No.: CTCE/BBMP/W.No.13/AP/CUBE/2012-13

30.05.2013

TEST REPORT ON CONCRETE CUBES

Client : **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

Agency : **Mr. A. Pradeep,** Contractor, Bangalore.

Name of the work : Providing Cement Concrete to Cross Roads at Mantapa Pradesh area in Ward No.13, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	02.05.2013	30.05.2013	8.426	536.4	23.84
2	02.05.2013	30.05.2013	8.397	526.9	23.42
3	02.05.2013	30.05.2013	8.234	518.6	23.05

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